

Work Order ID 66757



Page 1

Friday, February 25, 2011 1:19:39 PM

Item ID: D350-636-011

Accept



Setup Start



Revision ID:

Stop



Item Name: Skidtube LH

Start Date: 2/25/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 3/11/2011 Req'd Qty: 1.00



Customer:

Reference:

Approvals:

Process Plan:

IL

Date:

1-02-25

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr

Revision Nbr

IIN-D350-636

H

100

0.00



DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy blue file and type labels per PPP-D350-636-011 CHG 006

11 04 14 10

366757

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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NOTE: Date & initial all entries

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QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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110

0.00



Skidtubes

Skidtubes

Memo

0.00

1- Pick D2600-3 Bent

2- Deburr FWD and AFT ends, remove bending marks. Scribe batch# inside AFT end per dwg D2750

3- Drill pilot holes for blade fitting bolt holes using DT8983. Open to 0.500", deburr.

4- Locate DT8330 off of blade fitting bolt holes and drill pilot holes for blade fitting

5- Drill only two fwd step holes using DT9616. Ensure proper positioning.

6- Drill pilot holes as per Dwg D2750 sheet 4 (D2750-1 details). Drill using drill Jig DT8150 & DT8863A for first side only DT8863B for second side (detail B)

7- Clecko DT8863B on second side of tube and drill pilot holes for detail B.
SECOND SIDE

8-Open up holes for Detail B to 0.375" (4 holes per side) and blade fitting location holes to 0.500" (total of 4 holes per side) as per dwg D2750. Open up holes for ground handling and detail C to 0.500" (8 holes per side)

9-Drill pilot holes for wearplates as per Dwg D2750 using DT8108 open to 0.297".

10-Open up holes of Detail A to 0.297" (total of 2 holes per side)

B

11/03/18

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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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11-Weld D2744 Cap as per Dwg D2750 and QSI 004. Fill grooves in bend left
from bending as per QSI 004
A/R Aluminum Rod batch: ☐ M116577

BE 1/6/07/8

12-Grind welds flush as per Dwg D2750

BE 1/6/03/18

120



QC

Quality Control

QC10- Inspect visual per QSI004- ground welds

0.00

Sulorski

Memo

0.00

130



QC

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Sulorski

Memo

0.00

70

W/O:		WORK ORDER CHANGES					
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Abstract—The purpose of this study was to determine the effect of a 10-week training program on the heart rate (HR) and energy expenditure (EE) of sedentary, middle-aged women. The subjects were 10 women, 40 to 50 years of age, who were sedentary and had no cardiovascular or pulmonary disease. The subjects were randomly assigned to a 10-week training program or a control group. The training program consisted of three sessions per week of 30 minutes of aerobic exercise at 60% of the maximum HR. The control group did not exercise. The HR and EE were measured at rest and during exercise at the beginning and end of the 10-week period. The HR and EE were significantly higher in the training group than in the control group at the end of the 10-week period. The HR and EE were also significantly higher in the training group than in the control group during exercise. The results of this study suggest that a 10-week training program can improve the HR and EE of sedentary, middle-aged women.

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1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

Stop

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

2. Once the problem is identified, the next step is to define the objectives and goals of the project. This helps to clarify what needs to be achieved and provides a clear direction for the work.

3. The third step is to develop a plan or strategy to address the problem. This involves breaking down the problem into smaller, manageable tasks and determining the resources needed to complete them.

4. The fourth step is to implement the plan. This involves putting the strategy into action and monitoring progress to ensure that the objectives are being met.

5. The final step is to evaluate the results of the project. This involves assessing the effectiveness of the plan and identifying any areas for improvement or further action.

[illegible]

Customer:

1 11/11/2007 11:11:11 AM

Run Start

Stop

Abstract

**Insp.
Stamp**

0.00

Abstract

HandFinish

Memo

0.00

Hand Finishing

150

0.00

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

2. Once the problem is identified, the next step is to define the objectives and goals of the project. This helps to clarify what needs to be achieved and provides a clear direction for the team.

3. The third step is to develop a plan or strategy to address the problem. This involves breaking down the problem into smaller, manageable tasks and determining the resources needed to complete each task.

4. The fourth step is to implement the plan. This involves putting the strategy into action and monitoring progress regularly to ensure that the project is on track.

5. Finally, the fifth step is to evaluate the results of the project. This involves assessing the outcomes against the objectives and goals to determine the effectiveness of the project and identify areas for improvement.

QC

Memo

0.00

Quality Control

11-3-22

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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NOTE: Date & initial all entries

Work Order ID 66757

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Item ID: D350-636-011

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Item Name: Skidtube LH

Start Date: 2/25/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 3/11/2011 Req'd Qty: 1.00



Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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160

0.00



Skidtubes

Skidtubes

Memo

0.00

1-Open up holes of Detail C and ground handling to 0.625" (total of 8 holes per side)
as per dwg D2750.2-Open up holes of Detail B to 0.750" (total of 4 holes per side)
as per dwg D2750.

3- Open float hole to 0.500" (4 per side)

4-Chamfer holes of Detail B, C, ground handling and float holes per dwg D2750
(welding instructions on sheet 8)

5-Deburr and blow out all chips from inside of tube

6- Prepare tube for welding, remove alodine as required.

7-Bond web D2739 in place as per QSI015

A/R ☐☐☐ Sikaflex-291 batch: 01/16040 ☐☐☐
exp. date: 09/20118- Weld spacers D3490-1, D3490-3 and D2743 as per dwg D2750 & QSI004
(welding instructions on sheet 8)A/R ☐☐☐ Aluminum Rod batch: M116577

9- At section AJ-AJ drill out x-bolt spacer to 0.404"

10-Grind welds flush as per Dwg D2750

BE 11/03/25

BE 4/03/31
BE 11/04/07
BE 4/04/07

W/O:		WORK ORDER CHANGES					
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Run Start

Stop

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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11-Spot face ground handling holes section (total of 4 places per side) as per
dwg D2750

BE 11/04/01

12-Debur holes

BE 11/04/01

170



QC

Quality Control

QC10- Inspect visual per QSI004- ground welds

0.00

Memo

0.00

Sulouf

180



QC

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

Sulouf

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Customer:

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Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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190

Pressure Wash per QSI005 4.3

0.00



HandFinish

Memo

0.00

Hand Finishing

Re-alodine tube as per QSI 005 section 4.1.2.1 do not acid etch.

1 0 25 1104/04

200

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

0.00



Powdercoat

M 115951

Memo

0.00

Powder Coating

START TIME: 8:40
OVEN TEMPERATURE: 320°
FINISH TIME: 9:10

1 BL 11-4-4

210

QC3- Inspect Part Finish

0.00



QC

Memo

0.00

Quality Control

Inspect for foreign object per QSI 024

1 0 25 1104/05

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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
220		0.00							
	HandFinishing					1	0	22	11/04/06
HandFinish	Memo	0.00							
Hand Finishing	1- Install inserts as per Dwg D2750								
230		0.00							
	HandFinishing					1	0	22	11/04/06
HandFinish	Memo	0.00							
Hand Finishing	1-Inspect for Foreign Objects								
	2-Spray inside of tube with "LPS-3" batch: N/A								
	3-Install blade fitting D3488-041, wearshoes and ground handling hardware as per dwg D2750								
	SIKA FLEX 241								
	BATCH: 1116918								
	EXP DATE:								
	4-assemble o-ring to plug as per dwg D3492 and apply o-ring lube								
	A/R 55-o-ring lube batch: 1114189								
	5-Coat all exposed fasteners with "LPS Procyon" batch: 11114896								

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QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

240

QC5- Inspect part completeness to step on W/O

0.00

0.00 *Subtotal*

QC

Memo

Quality Control



250

Pick Kit

0.00



0.00

Packaging

Memo

Packaging

11/4/11

260

QC4- 100% Inspect kits for completeness

0.00



0.00

QC

Memo

Quality Control

*****ensure antiseize is on AN8C21A bolts*****

11 04 14 11

W/O:		WORK ORDER CHANGES					
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270 	Packaging	0.00							
Packaging	Memo	0.00	Rev I	L.72			11/4/11		
Packaging	Package as per PPP D350-636-011								
280 	QC21- Final Inspection - Work Order Release	0.00							
QC	Memo	0.00							
Quality Control									

MF
11-04-14

W/O:		WORK ORDER CHANGES					
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Picklist Print

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Page 1

Work Order ID: 66757

Parent Item: D350-636-011

Parent Item Name: Skidtube LH



Start Date: 2/25/2011

Required Date: 3/11/2011

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev: I 02.09.25 Rearranged procedure steps KJ
 IPP Rev: J 06-03-23 As per Rev D JLM
 IPP Rev: K 06-07.13 As per dsi9343 EC
 IPP Rev: L 07-07-28 Added SS Wearplates (Rev E) JLM Verified By: EC
 IPP Rev: M 08-04-22 update steps 4, 13 DD verified by: EC
 IPP Rev: N 08-09-23 revF as per dwg DD verified by: ec
 IPP Rev: O 09-02-06 apply antiseize on AN8C21A bolts as per PAR09-010
 DD verified by: EC IPP Rev: P 10.06.22
 revise seq110 DD verf: EC IPP Rev: Q 10.10.01 as per IIN
 revH DD verf: EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

D2594-3		Manufactured	No			- 230	Each	1,031.000	8	8			
O-Ring, 205 Skidtube													

Location Loc Qty Loc Code

FP 543

55546 19

58191 12

59358 12

65518 500

fpa 488

61762 488

AN960JD816

Purchased

No

250

Each

89.0000

2

2

1/2" washer, Alum

Location

Loc Qty

Loc Code

ST348 89

106043 89

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Page 2

Friday, February 25, 2011 1:19:46 PM

Work Order ID: 66757

Parent Item: D350-636-011

Parent Item Name: Skidtube LH

Start Date: 2/25/2011

Required Date: 3/11/2011

Start Qty: 1.00

Required Qty: 1.00



Cap

Manufactured No 110 Each 55.0000 1 1



DE 11/03/18

Location Loc Qty Loc Code

LG 29

65086 29

ST 26

62715 26

D2600-3-BENT

Manufactured No

110 Each

6.0000

1



Extrusion Bent



Location Loc Qty Loc Code

LG 6

61634 2

62764 1

64434 3

D2743

Manufactured No

160 Each

122.0000

8

8



Crossbolt Spacer



DE 11/03/18

Location Loc Qty Loc Code

LG 122

50281 10

57953 2

59111 10

61844 16

64003 84

8

Friday, February 25, 2011 1:19:46 PM

Shop Packet Print

Page 2

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Friday, February 25, 2011 1:19:46 PM

Work Order ID: 66757

Parent Item: D350-636-011

Parent Item Name: Skidtube LH

Start Date: 2/25/2011

Required Date: 3/11/2011

Start Qty: 1.00

Required Qty: 1.00

D2739 Manufactured No

160 Each

4.0000

1 1



350 I Beam

Location

Loc Qty

Loc Code

LG

4

64448

4

D3490-3 Manufactured No

160 Each

35.0000

4 4



Cross Bolt Spacer

Location

Loc Qty

Loc Code

LG

35

60294

1

63556

24

64006

10

D3490-1 Manufactured No

160 Each

61.0000

4 4



Cross Bolt Spacer

Location

Loc Qty

Loc Code

LG

61

59424

3

62450

48

64005

10

ALS4-1032-225 Purchased No

220 Each

3,945.000

38 38



Insert

Location

Loc Qty

Loc Code

PK011

3945

110768

3945

BE 11/03/25
B 66981 x1

BE 11/03/31

BE 11/03/31

22 110-105

X38

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Friday, February 25, 2011 1:19:46 PM

Work Order ID: 66757

Parent Item: D350-636-011

Parent Item Name: Skidtube LH

Start Date: 2/25/2011

Required Date: 3/11/2011

Start Qty: 1.00

Required Qty: 1.00

D3492-041

Manufactured No

230 Each

93.0000

8

8



Plug Assembly

Location

Loc Qty

Loc Code

FP013

93

59114

1

62210

3

63994

29

65068

60

866937

x8

D3793-3

Manufactured No

230 Each

20.0000

1

1



Wearshoe

Location

Loc Qty

Loc Code

FP018

15

39479

1

39812

2

64447

12

FP18

4

61711

4

FP19

1

57947

1

61.0000

1

1

AN8C35A

Purchased No

230 Each



BOLT

Location

Loc Qty

Loc Code

ST345

25

116874

25

ST346

36

114442

5

115188

5

115960

26

y l

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Page 5

Friday, February 25, 2011 1:19:46 PM

Work Order ID: 66757

Parent Item: D350-636-011

Parent Item Name: Skidtube LH

Start Date: 2/25/2011

Required Date: 3/11/2011

Start Qty: 1.00

Required Qty: 1.00

D3793-1

Manufactured No

230

Each

25.0000

1

1



Wearshoe



JSL 11/24/05

LocationLoc QtyLoc Code

FP018

17

39277

1

39715

2

64445

14

FP18

8

59151

1

59630

1

61710

6

X1

D3488-041

Manufactured No

230

Each

17.0000

1

1



Blade Fitting Assembly, LH



JSL 11/24/05

LocationLoc QtyLoc Code

FG008

10

62002

10

FP18

7

61689

7

X1

D3794-3

Manufactured No

230

Each

19.0000

1

1



Gasket



JSL 11/24/05

LocationLoc QtyLoc Code

FP010

3

39422

3

FP10

15

60826

1

61712

14

X1

FP18

1

59153

1

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Shop Packet Print

Page 5

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Page 6

Friday, February 25, 2011 1:19:47 PM

Work Order ID: 66757

Parent Item: D350-636-011

Parent Item Name: Skidtube LH

Start Date: 2/25/2011

Required Date: 3/11/2011

Start Qty: 1.00

Required Qty: 1.00

AN6C44A Purchased No 230 Each 97.0000 4 4
BOLT
JL 11/04/05

Location	Loc Qty	Loc Code
FG	2	
103964	2	
ST344	95	
111649	2	
114653	1	
115936	42	
116874	50	

MS21083C8 Purchased No 230 Each 43.0000 1 1
NUT
JL 11/04/05

Location	Loc Qty	Loc Code
ST303	43	
113845	5	
114934	3	
115594	4	
115884	31	

D3536-25 Manufactured No 230 Each 24.0000 1 1
Gasket
JL 11/04/05

Location	Loc Qty	Loc Code
FP	12	
65903	12	
FP12	9	
64446	9	
FP-12	3	
39234	3	

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Shop Packet Print

Page 6

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Friday, February 25, 2011 1:19:47 PM

Work Order ID: 66757

Parent Item: D350-636-011

Parent Item Name: Skidtube LH

Start Date: 2/25/2011

Required Date: 3/11/2011

Start Qty: 1.00

Required Qty: 1.00

D3631-1

Manufactured No

230 Each

144.0000 8 8



Washer

Location

Loc Qty

Loc Code

ST072

144

1366959

x8

63647

144

D3791-1

Manufactured No

230 Each

14.0000 1 1



Wearplate

Location

Loc Qty

Loc Code

FP017

3

39276

1

39418

2

FP17

11

62239

11

x1

AN960C10L

NAS1149C0332
R

Purchased

No

230 Each

127.0000 38 38



washer

Location

Loc Qty

Loc Code

ST245

127

1117241

x38

107534

59

108246

68

D2745

Manufactured No

230 Each

121.0000 8 8



Bushing

Location

Loc Qty

Loc Code

ST023

121

52311

5

59112

4

61988

4

63315

108

x8

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Friday, February 25, 2011 1:19:47 PM

Work Order ID: 66757



Parent Item: D350-636-011



Parent Item Name: Skidtube LH

Start Date: 2/25/2011

Required Date: 3/11/2011

Start Qty: 1.00

Required Qty: 1.00

AN3C5A Purchased No

230 Each

1,024.000 34 34



Bolt



Handwritten: 34 11/04/05

Location

Loc Qty

Loc Code

ST350

1024

107862

68

108302

34

114330

11

115015

13

115371

4

115422

100

115835

194

116419

500

116549

100

Handwritten: x34

D3537-1 Manufactured No

230 Each

33.0000 3 3



Wearpad



Handwritten: 3 11/04/05

Location

Loc Qty

Loc Code

FP017

33

37749

6

65057

27

Handwritten: B65927

Handwritten: x3

AN960C816L * Purchased No

230 Each

0.0000 1 1



WASHER NAS1149C08332R/M114915



Handwritten: (x1) 1 11/04/05

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Friday, February 25, 2011 1:19:48 PM

Work Order ID: 66757

Parent Item: D350-636-011


Parent Item Name: Skidtube LH

Start Date: 2/25/2011

Required Date: 3/11/2011

Start Qty: 1.00

Required Qty: 1.00


D3492-043 Manufactured No 230 Each 41.0000 8 8

 Plug Assembly

Location Loc Qty Loc Code

FP	2	
54682	2	
FP013	39	1366931
59117	1	
59190	4	
63996	2	
65070	32	

del 11/04/05

x8


AN3C6A Purchased No 230 Each 359.0000 4 4

 BOLT

Location Loc Qty Loc Code

ST351	359	
111982	134	
116419	75	
116549	50	
116704	100	

del 11/04/05

x4

NAS1611-013 Purchased No 230 Each 248.0000 8 8

 O-RING

Location Loc Qty Loc Code

FP	248	
115460	100	M117291
115589	28	
115812	20	
116582	100	

del 11/04/05

x8

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Friday, February 25, 2011 1:19:48 PM

Work Order ID: 66757

Parent Item: D350-636-011



Parent Item Name: Skidtube LH

Start Date: 2/25/2011



Required Date: 3/11/2011

Start Qty: 1.00



Required Qty: 1.00

D3535-25 Manufactured No 230 Each 21.0000 1 1
  21 11/04/05
 Wearshoe



<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
FP18	21	
38867	1	
39716	2	
62233	6	
<u>65167</u>	12	

D3794-1 Manufactured No 230 Each 15.0000 1 1
  11 11/04/05
 Gasket

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
FP010	15	
39279	1	
39421	2	
<u>61704</u>	12	

MS21043-6 Purchased No 230 Each 546.0000 4 4
  41 11/04/05
 NUT

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST301	546	
<u>112314</u>	546	

D3493-1 Manufactured No 250 Each 32.0000 2 2
  2 11/14/14
 Washer

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST062	32	
<u>62677</u>	32	

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Friday, February 25, 2011 1:19:48 PM

Work Order ID: 66757

Parent Item: D350-636-011

Parent Item Name: Skidtube LH

Start Date: 2/25/2011

Required Date: 3/11/2011

Start Qty: 1.00

Required Qty: 1.00

MS21083C8

Purchased

No

250

Each

43.0000

2

2



NUT



MITT91

Location

Loc Qty

Loc Code

ST303

43

113845

5

114934

3

115594

4

115884

31

AN8C21A

Purchased

No

250

Each

71.0000

2

2



BOLT



11/4/48

Location

Loc Qty

Loc Code

ST345

71

113558

1

114653

2

115723

8

116381

60

D3672-1

Manufactured

No

230

Each

1,077.000

8

8



Phenolic Washer



PTO =)

Location

Loc Qty

Loc Code

ST077

1077

42329

10

52505

67

64177

1000

W/O: 66757		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
11/04/05	230	Assemble with NAS1515H36 / M113362	JS	11/04/05	51		ML WM 11 04 15

Part No: D350-636-011 PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Friday, February 25, 2011 1:19:48 PM

Work Order ID: 66757

Parent Item: D350-636-011


Parent Item Name: Skidtube LH

Start Date: 2/25/2011

Required Date: 3/11/2011

Start Qty: 1.00

Required Qty: 1.00

WJ
X1
D2741

Blade, 350 Skidtube

Manufactured No 250 Each 79.0000




1

11/4/14

SP

Location	Loc Qty	Loc Code
ST466	79	
60210	6	
61341	33	
63589	40	

WJ
X1
D3532-1

Spacer

Manufactured No 250 Each 31.0000



2

11/4/14

SP

Location	Loc Qty	Loc Code
ST065	31	
62218	31	

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

8

7

6

5

4

3

2

1

QTY -041	QTY -042	QTY -043	QTY -044	PART NUMBER	DESCRIPTION
X				D2750-041	350 SKIDTUBE ASSEMBLY, LH
	X			D2750-042	350 SKIDTUBE ASSEMBLY, RH
		X		D2750-043	350 SKIDTUBE ASSEMBLY, LH
			X	D2750-044	350 SKIDTUBE ASSEMBLY, RH
1	1	1	1	D2739	WEB
8	8	8	8	D2743	SPACER
1	1	1	1	D2744	CAP
8	8	8	8	D2745	BUSHING
1				D2750-1	SKIDTUBE WELDMENT, LH
	1			D2750-2	SKIDTUBE WELDMENT, RH
		1		D2750-3	SKIDTUBE WELDMENT, LH
			1	D2750-4	SKIDTUBE WELDMENT, RH
1		1		D3488-041	BLADE FITTING, LH
	1		1	D3488-042	BLADE FITTING, RH
4	4	4	4	D3490-1	SPACER
4	4			D3490-3	SPACER
		4	4	D3490-5	SPACER
8	8	8	8	D3492-041	PLUG ASSEMBLY
8	8			D3492-043	PLUG ASSEMBLY
		8	8	D3492-045	PLUG ASSEMBLY
1	1	1	1	D3535-25	WEARSHOE
1	1	1	1	D3536-25	GASKET
3	3	3	3	D3537-1	WEARPAD
8	8	8	8	D3631-1	WASHER
1	1	1	1	D3791-1	WEARPLATE
1	1	1	1	D3793-1	WEARSHOE
1	1	1	1	D3793-3	WEARSHOE
1	1	1	1	D3794-1	GASKET
1	1	1	1	D3794-3	GASKET
38	38	38	38	ALS4-1032-225	INSERT (OR ALS7-1032-225, AKS4-1032-225, AELS-1032-225)
34	34	34	34	AN3C5A	BOLT
4	4	4	4	AN3C6A	BOLT
4	4	4	4	AN6C44A	BOLT
1	1	1	1	AN8C35A	BOLT
38	38	38	38	AN960C10L	WASHER
1	1	1	1	AN960C816L	WASHER
4	4	4	4	MS21043-6	NUT
1	1	1	1	MS21083C8	NUT
4	4	4	4	NAS1515H3L	WASHER

SHOP COPY
(RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 61751

RELEASED

GENERAL NOTES:

- 1) MATERIAL: MAKE D2750-1/-2/-3/-4 FROM D2600-3 EXTRUSION (INITIAL LENGTH = 120.0).
- 2) FINISH:
ACID ETCH, ALONDE ASSEMBLY PER DART QSI 005 4.1 PRIOR TO INSTALLING D2739 WEB.
POWDER COAT WHITE (REF. 4.3.5.1) PER DART QSI 005 4.3
BLACK ANTI-SKID PAINT AS INDICATED TO 1.0 ABOVE SKIDTUBE CENTER-LINE PER DART 005 4.4 (OPTIONAL).
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: D2750-041/-042/-043/-044 = 26.5 LBS
- 8) WELD PER DART QSI 004
- 9) INSTALL ALS4-1032-225 INSERTS AFTER FINISH AS INDICATED. DRILL 'F' SIZE HOLES ($\phi 0.297$) FOR WEARSHOE INSERTS
- 10) FINAL CONFIGURATION SHOULD HAVE THE FOLLOWING MINIMUM MECHANICAL PROPERTIES:
MINIMUM YIELD TENSILE STRENGTH = 35 KSI
MINIMUM ULTIMATE TENSILE STRENGTH = 38 KSI
- 11) SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS.
COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCVON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF
POWDER COATING WITH MEK DEGREASER.
- 12) SPACER AND PLUG INSTALLED SAME AS SECTION AJ-AJ EXCEPT HORIZONTAL
- 13) SPACER AND PLUG INSTALLED SAME AS SECTION AP-AP EXCEPT HORIZONTAL

F	INCORPORATE DSI 9413; QTY (3) D3537-1 WAS QTY (5) (ZN C8-1); D3791-1/-3 REPLACES D3536-13/-35 (ZN C8-1); D3794-1/-3 REPLACES D3536-13/-35 (ZN B8-1); ADD D3791-1 (ZN C8-1); WEARSHOE HOLES UNDER FWD/AFT SADDLE REMOVED (8 PL); WEARSHOE HARDWARE QTY UPDATED (ZN B8-1); D3488-041/-042 HARDWARE UPDATED (ZN C1-8, 9, 10, 11); ADD NOTE 12 AND 13 (ZN A6-1); REASON: REF. NCR 08-043	PH	08.07.16
E	CHANGE TO STAINLESS STEEL WEARPLATES; ADD RUBBER GASKETS, CHANGE INSERTS; ADD D3631-1; REMOVE QTY (38) NAS1515H3L; REMOVE QTY (10) NAS1515HBL; REMOVE D2741; QTY (2) AN960C816; REMOVE QTY (2) MS21083C8	CB	07.05.17
D	ADD HOLES AND SPACERS FOR APICAL FLOATS; INCORPORATE DEO 9133/9157	PH	06.01.05
C	ADD D2750-3/D2750-4; INCORPORATE D2738 AND D2740	CP	98.11.18
B	CHANGE MS24694-S293 TO AN8-16A	CP	98.09.01
A	NEW ISSUE	DS	98.04.16
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	08.07.16		
DART AEROSPACE USA, INC. PORT HADLOCK, WA DRAWING NO. D2750 TITLE 350 SKIDTUBE ASSEMBLY REV. F SHEET 1 OF 11 SCALE NTS COPYRIGHT © 1988 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.			

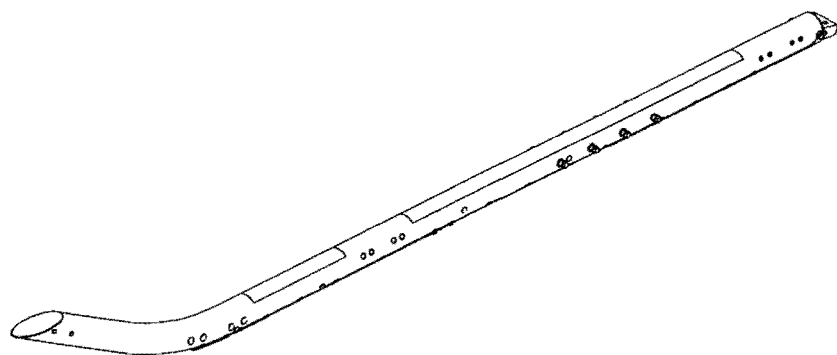
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DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

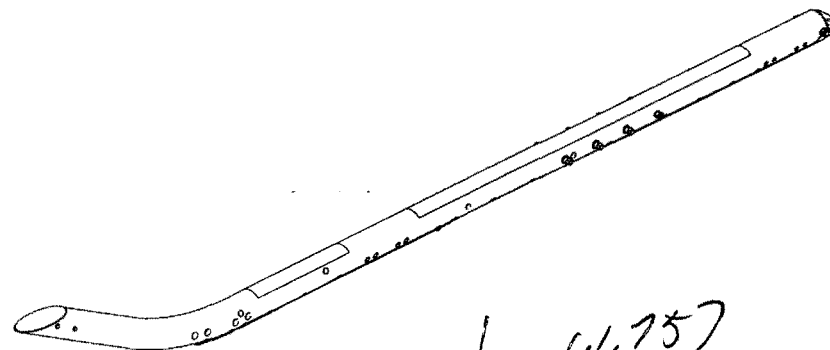
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NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



D2750-041 350 SKIDTUBE ASSEMBLY, LH



D2750-042 350 SKIDTUBE ASSEMBLY, RH

w/c 66757

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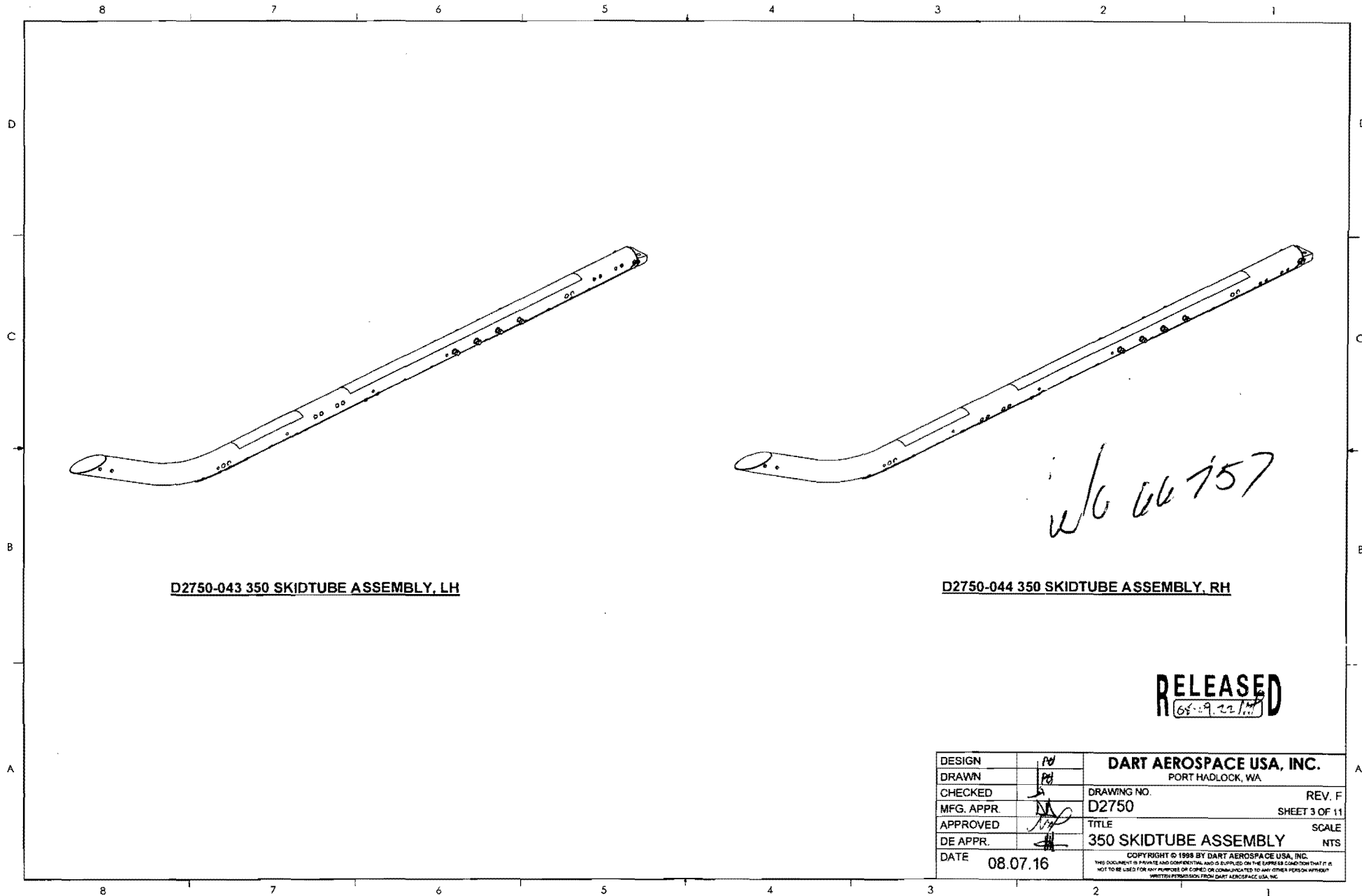
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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

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MFG. APPR.	<i>MA</i>	D2750	SHEET 3 OF 11
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DE APPR.	<i>MA</i>	350 SKIDTUBE ASSEMBLY	NTS
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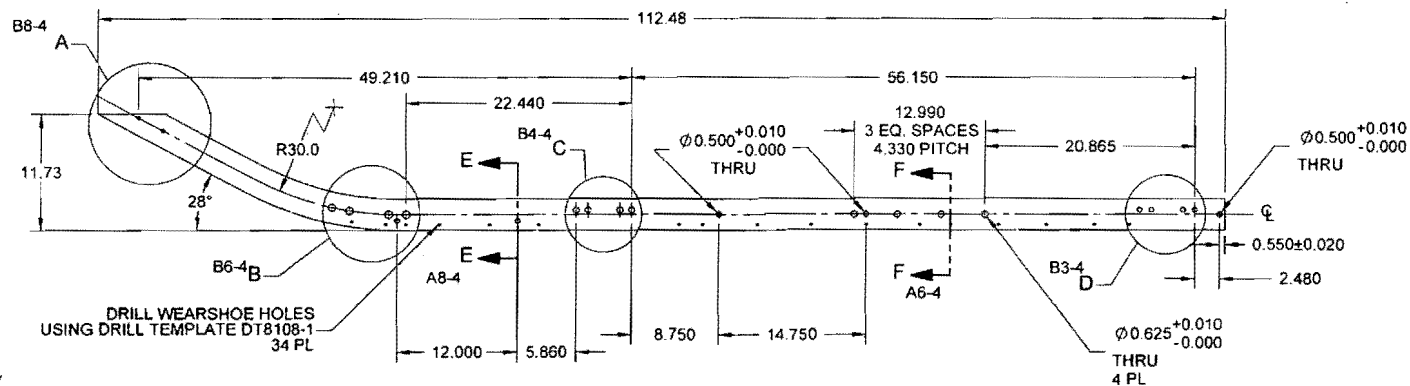
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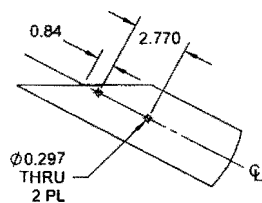
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

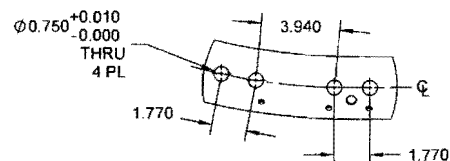
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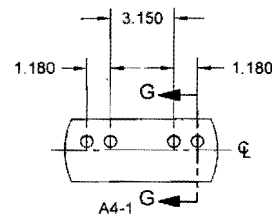
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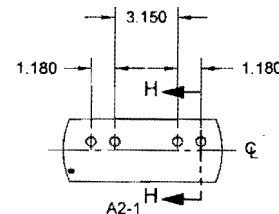
DETAIL A
SCALE 2X



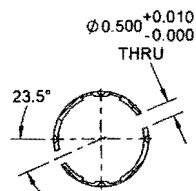
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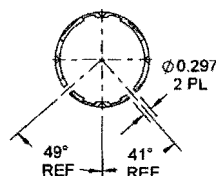
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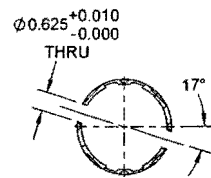
DETAIL D
SCALE 2X



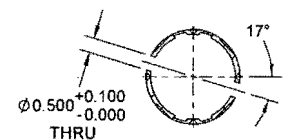
SECTION E-E
SCALE 3X, 2 PL



SECTION F-F
SCALE 3X, 17 PL



SECTION G-G
SCALE 3X, 4 PL



SECTION H-H
SCALE 3X, 4 PL

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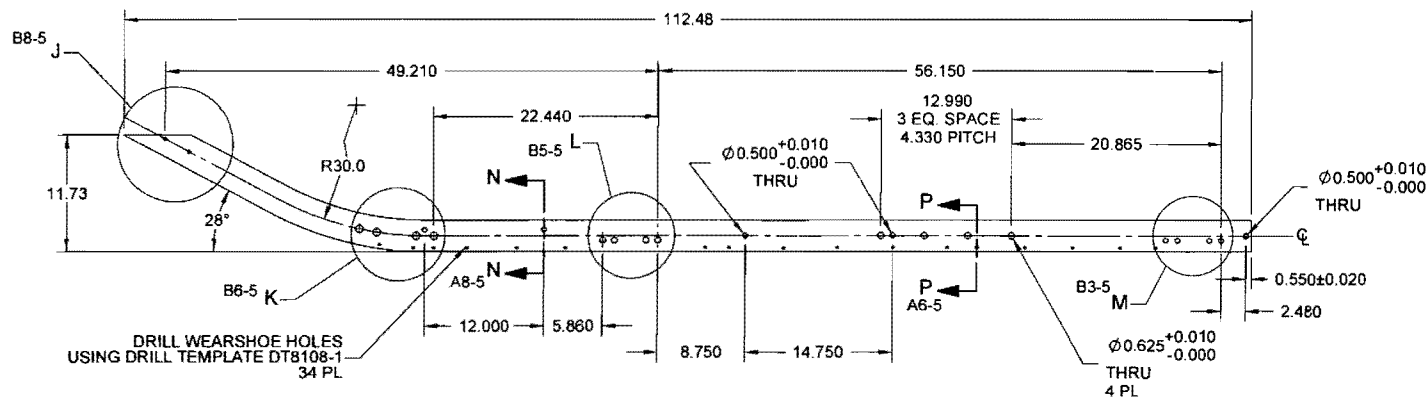
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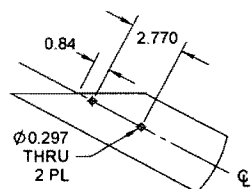
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

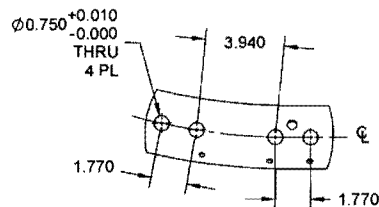
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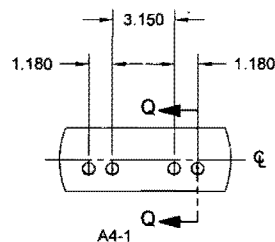
D2750-2 RH SKIDTUBE



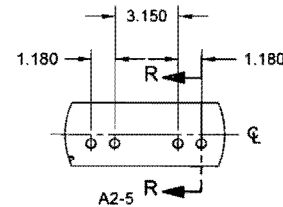
DETAIL J
SCALE 2X



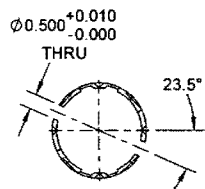
DETAIL K
SCALE 2X



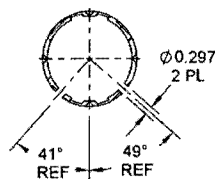
DETAIL L
SCALE 2X



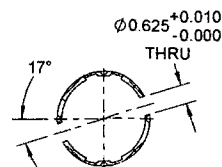
DETAIL M
SCALE 2X



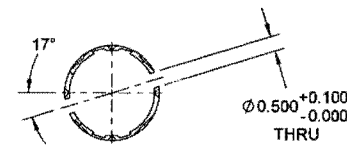
SECTION N-N
SCALE 3X, 2 PL



SECTION P-P
SCALE 3X, 2 PL



SECTION Q-Q
SCALE 3X, 4 PL



SECTION R-R
SCALE 3X, 4 PL

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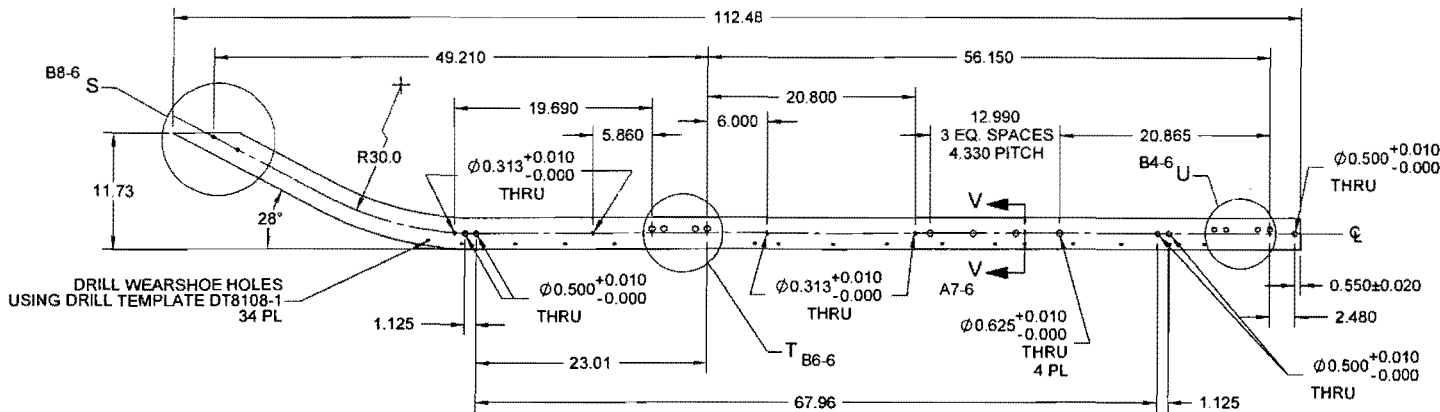
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DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

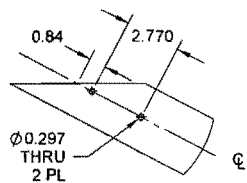
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

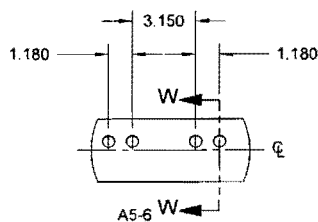
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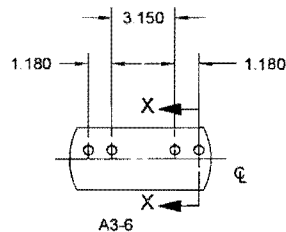
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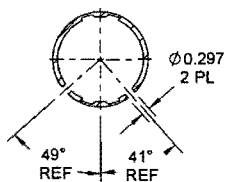
DETAIL S
SCALE 2X



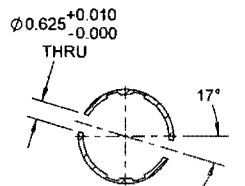
DETAIL T
SCALE 2X



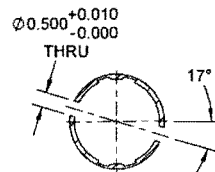
DETAIL U
SCALE 2X



SECTION V-V
SCALE 3X, 17 PL



SECTION W-W
SCALE 3X, 4 PL



SECTION X-X
SCALE 3X, 4 PL

WLU 66757

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08-27-11

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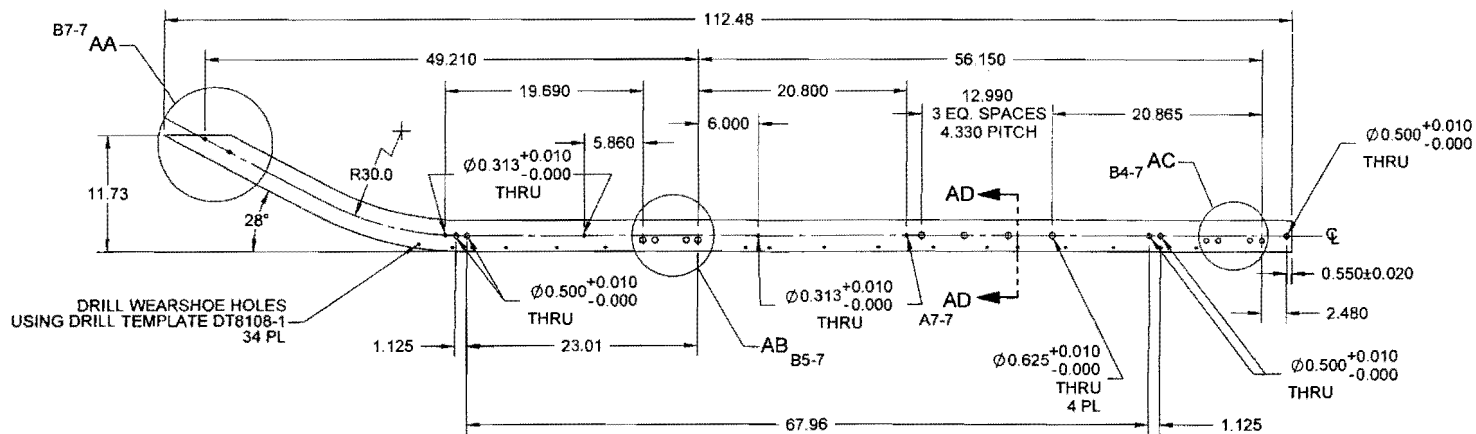
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DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

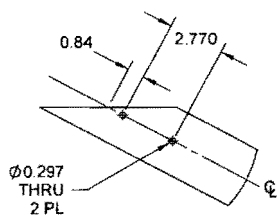
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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

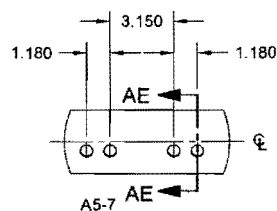
NOTE: Date & initial all entries



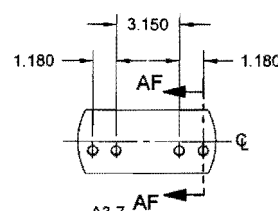
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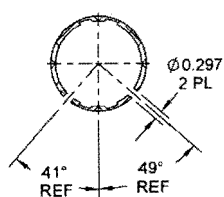
DETAIL AA
SCALE 2X



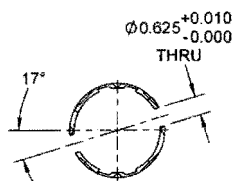
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SCALE 2X



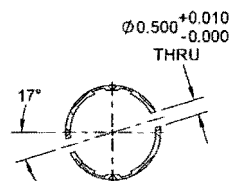
DETAIL AC
SCALE 2X



SECTION AD-AD
SCALE 3X, 17 PL



SECTION AE-AE
SCALE 3X, 4 PL

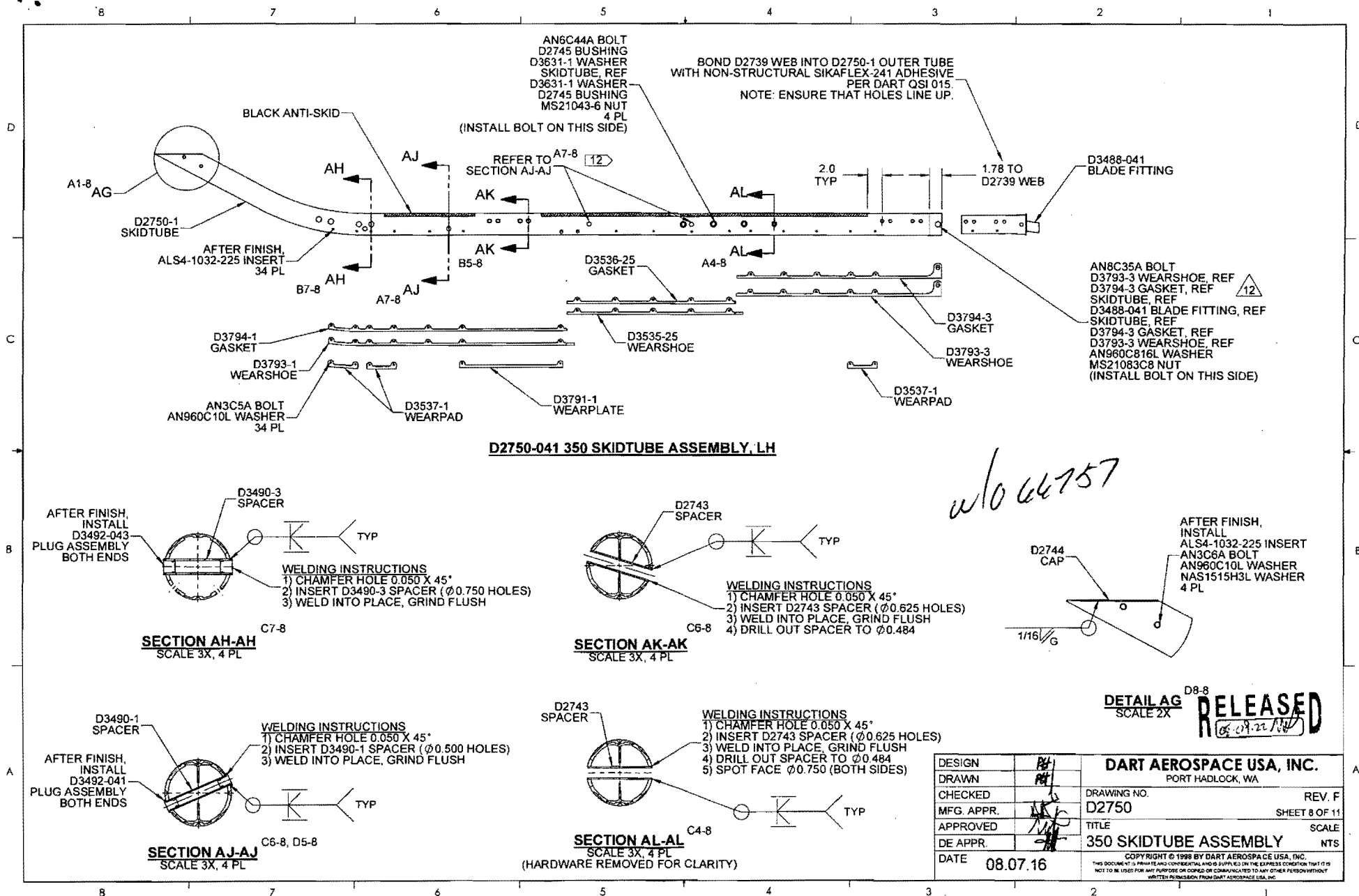


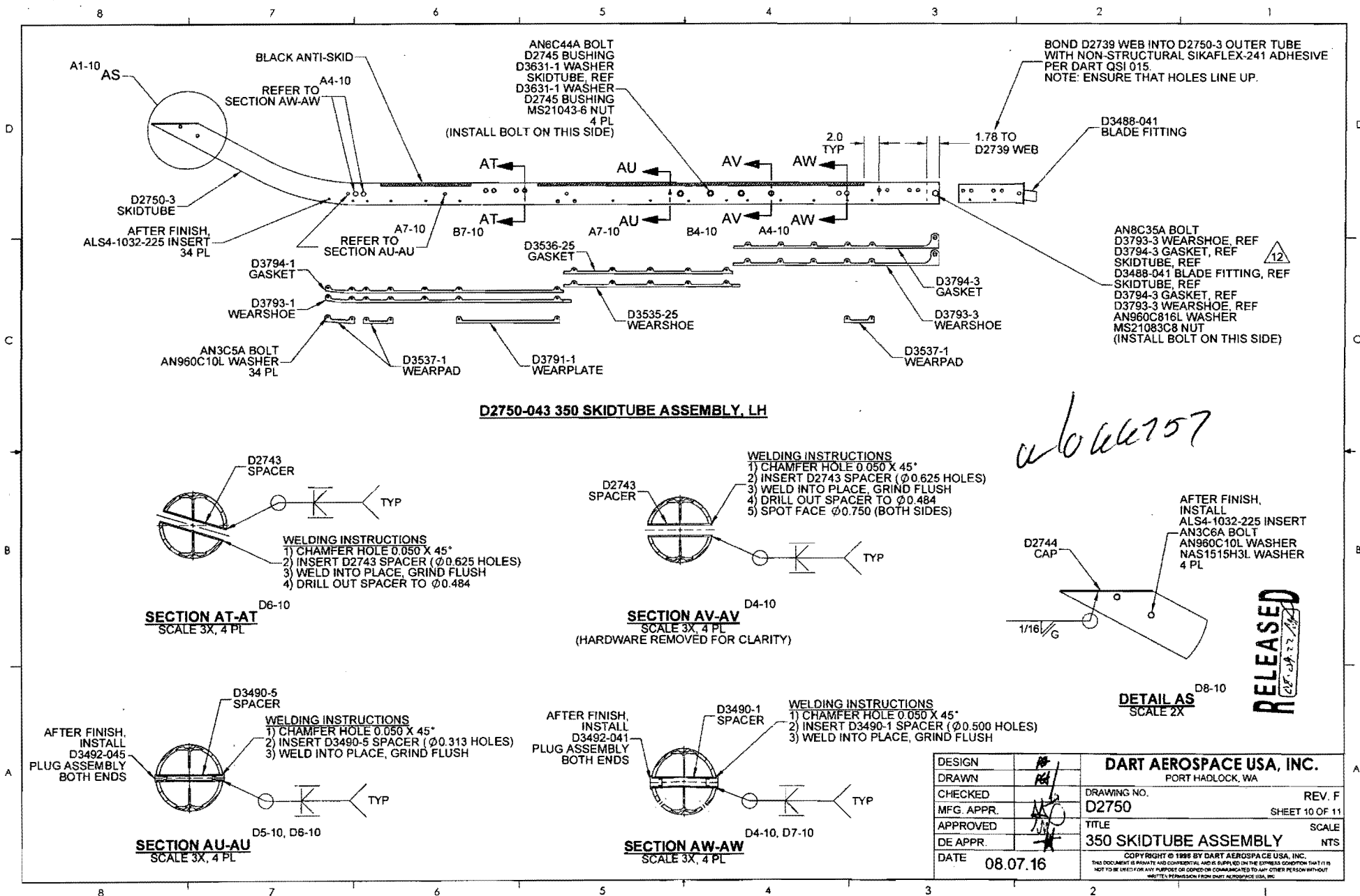
SECTION AF-AF
SCALE 3X, 4 PL

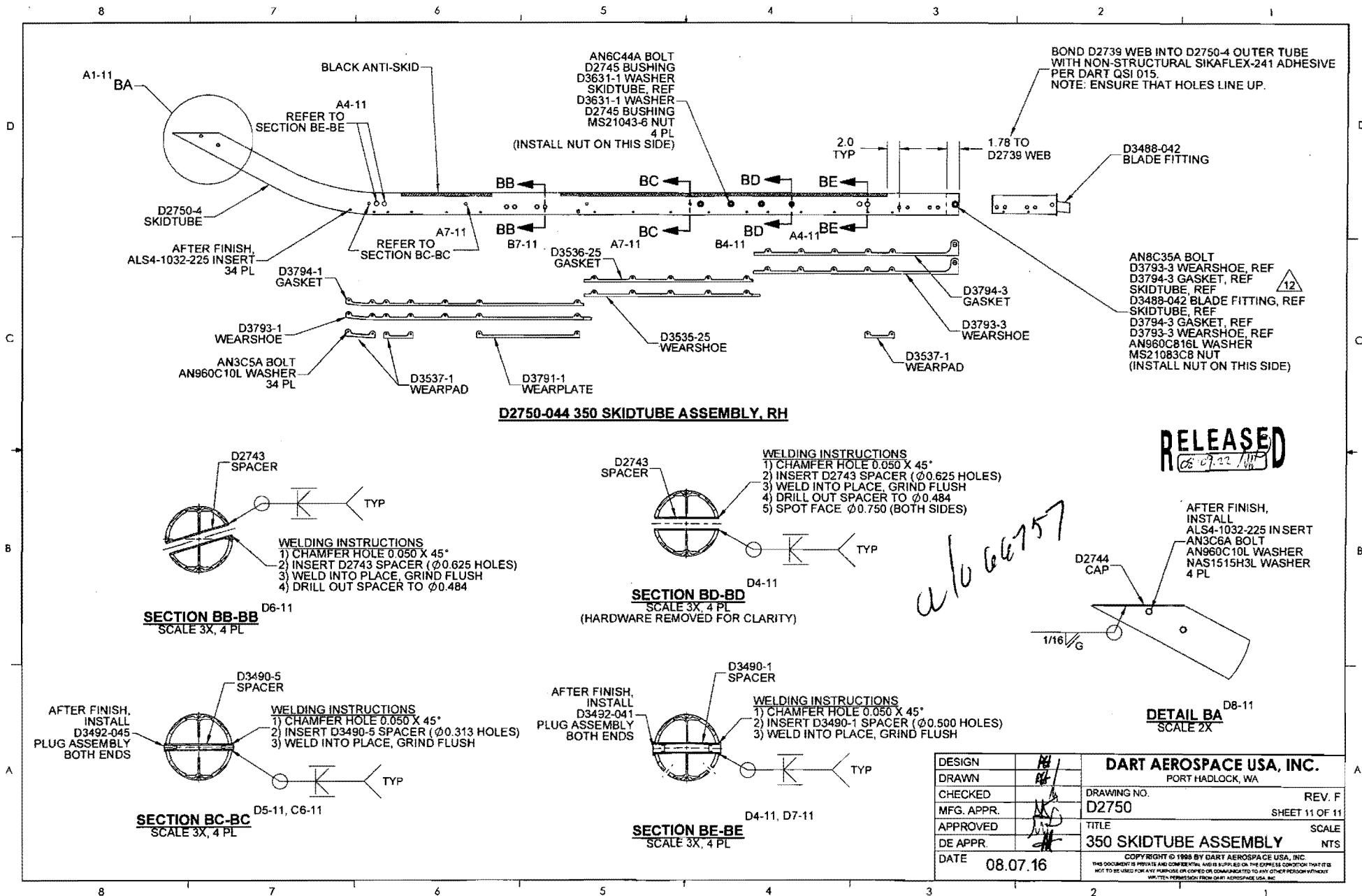
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06-09-22-102

DESIGN		DART AEROSPACE USA, INC.	
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MFG. APPR.			SHEET 7 OF 11
APPROVED		TITLE 350 SKIDTUBE ASSEMBLY	SCALE
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NO. 243

AWS D17.1.2001
QUALIFICATION TEST RECORD

Name: Barkley Elliott
Job number: ~~64953~~ 64953
Part number: S350-636-016
Description: 350 skid tube
Welding Process: Tig[☒] Mig[],
Base material: Aluminum
Current: AC[] DC[]

TEST REQUIREMENTS AND RESULTS

Visual: pass[☒] fail[]
Penetration: pass[☒] fail[]

UNACCEPTABLE

Cracks: pass[☒] fail[]
Undercut: pass[☒] fail[]
Pin holes: pass[☒] fail[]
Overlap (cold lap): pass[☒] fail[]
Porosity (surface): pass[☒] fail[]
Coloration: pass[☒] fail[]

Qualifier Salvatore Date of Test Coupon 11-01-18

Welder Barkley Elliott Date of Test Coupon 11-01-18

The above named individual is qualified in accordance with AWS D17.1.2001 to weld

Handwritten scribbles and marks at the top left corner.

0 0 0

Handwritten marks at the bottom left corner.